3620 PCT OIPE

Serial Number: ___C9/831,951A___

CRF Processing Date: ___2/14/2002___
Edited by: _____
Verified by: _____ (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII

- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line.

- ☐ Edited a format error in the Current Application Data section, specifically:
  _____

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

- ☐ Added the mandatory heading and subheadings for "Current Application Data".

- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
  _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
  _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
  _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- ☐ Inserted colons after headings/subheadings. Headings edited included:
  _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
  _____

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

- ☐ Inserted mandatory headings, specifically: _____

- ☐ Corrected an obvious error in the response, specifically:
  _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

- ☐ Corrected an error in the Number of Sequences field, specifically:
  _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- ☑ Other: _Seq 3 - inserted amino acid nos._
  _____
  _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.   3/1/95

OIPE

RAW SEQUENCE LISTING   DATE: 02/14/2002
PATENT APPLICATION: **US/09/831,951A**   TIME: 20:29:24

Input Set : **N:\Crf3\02072002\I831951A.raw**
Output Set: **N:\CRF3\02142002\I831951A.raw**

```
 1 <110> APPLICANT: SUNTORY LIMITED
 2 <120> TITLE OF INVENTION: Inhibitor and Activator of Coupling Factor-6 and
 3       Antigen thereto
 4 <130> FILE REFERENCE: YCT-515
C--> 5 <140> CURRENT APPLICATION NUMBER: US/09/831,951A
 6 <141> CURRENT FILING DATE: 2001-05-16
 7 <150> PRIOR APPLICATION NUMBER: JPA 264687/99
 8 <151> PRIOR FILING DATE: 1999-09-17
 9 <160> NUMBER OF SEQ ID NOS: 24
11 <210> SEQ ID NO: 1
12 <211> LENGTH: 76
13 <212> TYPE: PRT
14 <213> ORGANISM: Human
15 <400> SEQUENCE: 1
16       Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu
17        1           5                   10
18       Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser
19                      15                  20
20       Lys Arg Gln Thr Ser Gly Gly Pro Val Asp
21                      25                  30
22       Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu
23                      35                  40
24       Arg Glu Leu Phe Lys Leu Lys Gln Met Phe
25                      45                  50
26       Gly Asn Ala Asp Met Asn Thr Phe Pro Thr
27                      55                  60
28       Phe Lys Phe Glu Asp Pro Lys Phe Glu Val
29                      65                  70
30       Leu Glu Lys Pro Gln Ala
31                      75
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 76
35 <212> TYPE: PRT
36 <213> ORGANISM: Rat
37 <400> SEQUENCE: 2
38       Asn Lys Glu Leu Asp Pro Val Gln Lys Leu
39        1           5                   10
40       Phe Leu Asp Lys Ile Arg Glu Tyr Lys Ala
41                      15                  20
42       Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
43                      25                  30
44       Thr Gly Pro Glu Tyr Gln Gln Glu Val Asp
45                      35                  40
```

```
46        Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr
47                     45              50
48        Gly Lys Gly Glu Met Asp Lys Phe Pro Thr
49                     55              60
50        Phe Asn Phe Glu Asp Pro Lys Phe Glu Val
51                     65              70
52        Leu Asp Lys Pro Gln Ser
53                     75
55   <210> SEQ ID NO: 3
56   <211> LENGTH: 5
57   <212> TYPE: PRT
58   <213> ORGANISM: Unknown
59   <220> FEATURE:
```
W--> 60   **<221> NAME/KEY:**
```
61   <222> LOCATION:
62   <223> OTHER INFORMATION: Enterokinase recognition site
63   <400> SEQUENCE: 3
64        Asp Asp Asp Asp Lys
65        1               5
67   <210> SEQ ID NO: 4
68   <211> LENGTH: 139
69   <212> TYPE: PRT
70   <213> ORGANISM: E. coli
71   <400> SEQUENCE: 4
72        Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
73         1               5              10                  15
74        Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
75                     20              25                  30
76        Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
77                     35              40                  45
78        Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
79                     50              55                  60
80        Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Glu
81                     65              70                  75
82        Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
83                     80              85                  90
84        Gln Met His Gly Tyr Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr
85                     95              100                 105
86        Pro Ile Thr Val Asn Pro Pro Phe Val Pro Thr Glu Asn Pro Thr
87                     110             115                 120
88        Gly Ser Tyr Ser Leu Thr Phe Asn Val Asp Glu Ser Trp Leu Gln
89                     125             130                 135
90        Glu Gly Gln Thr
92   <210> SEQ ID NO: 5
93   <211> LENGTH: 97
94   <212> TYPE: PRT
95   <213> ORGANISM: E. coli
96   <400> SEQUENCE: 5
97        Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
```

```
 98              1              5              10             15
 99     Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
100                            20             25             30
101         Pro Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp
102                            35             40             45
103         Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
104                            50             55             60
105         Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Asp Ser Leu Leu Asp
106                            65             70             75
107         Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
108                            80             85             90
109         Gln Met His Gly Tyr Asp Ala
110                            95
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 23
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <221> NAME/KEY:
118 <222> LOCATION:
119 <223> OTHER INFORMATION: Primer used in PCR method
120 <400> SEQUENCE: 6
121        atgactgttc agaggatctt cag                            23
123 <210> SEQ ID NO: 7
124 <211> LENGTH: 27
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <221> NAME/KEY:
129 <222> LOCATION:
130 <223> OTHER INFORMATION: Primer used in PCR method
131 <400> SEQUENCE: 7
132        gtcgactcag gactggggtt tgtcgag                        27
134 <210> SEQ ID NO: 8
135 <211> LENGTH: 23
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <221> NAME/KEY:
140 <222> LOCATION:
141 <223> OTHER INFORMATION: Primer used in PCR method
142 <400> SEQUENCE: 8
143        atgattcttc agaggctctt cag                            23
145 <210> SEQ ID NO: 9
146 <211> LENGTH: 28
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <221> NAME/KEY:
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W--> 117 **<221> NAME/KEY:**
W--> 128 **<221> NAME/KEY:**
W--> 139 **<221> NAME/KEY:**
W--> 150 **<221> NAME/KEY:**

RAW SEQUENCE LISTING   DATE: 02/14/2002
PATENT APPLICATION: **US/09/831,951A**   TIME: 20:29:24

Input Set : **N:\Crf3\02072002\I831951A.raw**
Output Set: **N:\CRF3\02142002\I831951A.raw**

```
151 <222> LOCATION:
152 <223> OTHER INFORMATION: Primer used in PCR method
153 <400> SEQUENCE: 9
154       gtcgactcag gcctgggggtt tttcgatg                           28
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 45
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
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W--> **161 <221> NAME/KEY:**
```
162 <222> LOCATION:
163 <223> OTHER INFORMATION: Gene coding for enterokinase recognition site and Eco
164       RI recognition
165       site
166 <400> SEQUENCE: 10
167       gaattcgacg atgacgataa gaataaggaa cttgatcctg tacag       45
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 46
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
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W--> **174 <221> NAME/KEY:**
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175 <222> LOCATION:
176 <223> OTHER INFORMATION: Gene coding for enterokinase recognition site and Eco
177       RI recognition
178       site
179 <400> SEQUENCE: 11
180       gaattcgacg atgacgataa gaataaggaa cttgatccta tacaga      46
182 <210> SEQ ID NO: 12
183 <211> LENGTH: 20
184 <212> TYPE: PRT
185 <213> ORGANISM: rat
186 <400> SEQUENCE: 12
187       Cys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
188        1               5                  10                  15
189       Asp Lys Pro Gln Ser
190                       20
192 <210> SEQ ID NO: 13
193 <211> LENGTH: 20
194 <212> TYPE: PRT
195 <213> ORGANISM: rat
196 <400> SEQUENCE: 13
197       Tyr Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
198        1               5                  10                  15
199       Asp Lys Pro Gln Ser
200                       20
202 <210> SEQ ID NO: 14
203 <211> LENGTH: 19
204 <212> TYPE: PRT
```

```
205 <213> ORGANISM: human
206 <400> SEQUENCE: 14
207       Cys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln
208        1               5               10              15
209       Thr Ser Gly Gly
211 <210> SEQ ID NO: 15
212 <211> LENGTH: 18
213 <212> TYPE: PRT
214 <213> ORGANISM: human
215 <400> SEQUENCE: 15
216       Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
217        1               5               10              15
218       Ser Gly Gly
220 <210> SEQ ID NO: 16
221 <211> LENGTH: 39
222 <212> TYPE: PRT
223 <213> ORGANISM: rat
224 <400> SEQUENCE: 16
225       Asn Lys Glu Leu Asp Pro Val Gln Lys Leu Phe Leu Asp Lys Ile
226        1               5               10              15
227       Arg Glu Tyr Lys Ala Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
228                       20              25              30
229       Thr Gly Pro Glu Tyr Gln Gln Glu Val
230                       35
232 <210> SEQ ID NO: 17
233 <211> LENGTH: 16
234 <212> TYPE: PRT
235 <213> ORGANISM: rat
236 <400> SEQUENCE: 17
237       Asp Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr Gly Lys Gly Glu
238        1               5               10              15
239       Met
241 <210> SEQ ID NO: 18
242 <211> LENGTH: 9
243 <212> TYPE: PRT
244 <213> ORGANISM: rat
245 <400> SEQUENCE: 18
246       Asp Lys Phe Pro Thr Phe Asn Phe Glu
247        1               5
249 <210> SEQ ID NO: 19
250 <211> LENGTH: 7
251 <212> TYPE: PRT
252 <213> ORGANISM: rat
253 <400> SEQUENCE: 19
254       Asp Pro Lys Phe Glu Val Leu
255        1               5
257 <210> SEQ ID NO: 20
258 <211> LENGTH: 5
259 <212> TYPE: PRT
```

VERIFICATION SUMMARY   DATE: 02/14/2002
PATENT APPLICATION: **US/09/831,951A**   TIME: 20:29:25

Input Set : **N:\Crf3\02072002\I831951A.raw**
Output Set: **N:\CRF3\02142002\I831951A.raw**

```
L:5 M:270 C: Current Application Number differs, Wrong Format
L:60 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:117 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:128 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:139 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:150 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:161 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:174 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:270 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:281 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:292 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:303 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
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